

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (original) An integrated air flow sensor comprising:  
a body forming air passage, an air flow rate detection means for detecting the air flow rate which flows in said air passage, and a throttle means controlled with an electric signal, for limiting said air flow rate by reducing the flow, said body, said air flow rate detection means and said throttle means being integrated;  
further comprising a correction and control means for correcting an input signal from said air flow rate detection means and controlling said throttle means.
2. (original) An integrated air flow sensor according to claim 1, wherein said correction and control means makes said correction based on said reduction amount.
3. (original) An integrated air flow sensor according to claim 1, wherein said correction and control means controls said throttle means so that the value of the signal after said correction is made may approach the target value.
4. (original) An integrated air flow sensor according to claim 1, wherein said correction and control means calculates a second air flow rate based on the engine speed and said reduction amount, and outputs a specific signal when the difference between the signal value after said correction and the second air flow rate is more than the fixed value.
5. (original) An integrated air flow sensor according to claim 1, wherein said correction and control means calculates a second air flow rate based on the engine speed and said reduction amount, and outputs said second air flow rate signal when the difference between the signal value after said correction and the second air flow rate is more than the fixed value.

6. (original) An integrated air flow sensor according to claim 1, wherein said correction and control means calculates a second air flow rate based on the engine speed and said reduction amount and outputs it, when said reduction amount is below the fixed value.

7. (currently amended) An integrated air flow sensor according to claim 4 ~~any one of claims 4, 5 and 6~~, wherein said correction and control means corrects said second air flow rate based on the input air temperature.

8. (original) An integrated air flow sensor comprising:

a body forming air passage, an air flow rate detection means for detecting the air flow rate which flows in said air passage, and a throttle means controlled with an electric signal, for limiting said air flow rate by reducing the flow, said body, said air flow rate detection means and said throttle means being integrated;

further comprising a pressure calculation means for calculating the pressure from the air flow rate detected by said air flow rate detection means, the engine speed, the reduction amount by said throttle means and the air temperature.

9. An integrated air flow sensor comprising:

a body forming air passage, an air flow rate detection means for detecting the air flow rate which flows in said air passage, and a throttle means controlled with an electric signal, for limiting said air flow rate by reducing the flow, said body, said air flow rate detection means and said throttle means being integrated;

further comprising a air flow rate calculation means for calculating the corrected air flow rate from the air flow rate detected by said air flow rate detection means, the engine speed, the reduction amount by said throttle means and the air temperature.

10. (currently amended) An integrated air flow sensor according to claim 4 ~~any one of claims 4, 5, 6, 8 and 9~~, wherein said engine speed is detected based on the change in the value of the air flow rate signal detected in said air flow rate detection means.

11. (currently amended) An integrated air flow sensor according to claim 1 ~~any one of claims 1, 8 and 9~~, further comprising a thermosensitive resistor exposed to said air flow,

wherein said air temperature is calculated by using an electric current which flows in said thermosensitive resistor or a voltage applied to both ends of said thermosensitive resistor.

12. (currently amended) An integrated air flow sensor according to claim 1 ~~any one of claims 1, 8 and 9~~, wherein said air flow rate detection means detects the air flow rate based on the amount of heat radiation from the resistor which generates heat, said throttle means is an electronically controlled throttle, and said correction and control means is an electric circuit provided with the microcomputer.

13-32. (cancelled)